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PN - JP62049073 A 19870303
TI - PISTON-IN FOR INTERNAL COMBUSTION ENGINE

2/2 (1/1 PAJ) - (C) PAJ / JPO

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TI - PISTON-IN FOR INTERNAL COMBUSTION ENGINE

AB - PURPOSE: To improve mechanical strength of light metal and hardness on an outer periphery surface, in the captioned piston-pin, by forming said piston-pin with light metal in which reinforcing fibers are mixed while covering the outer periphery surface thereof with a plating layer.

- CONSTITUTION: A piston-pin 1 is formed in cylindrical shape by light metal of aluminum alloy 2. In this aluminum alloy 2, a number of long size fibers 3 made of alumina, as reinforcing fibers, are mixed. The other hand, the periphery surface of aluminum alloy 2 is covered with a dispersion plating layer 4, which is applied by electro-dispersion Ni-P plating method using, as a base bath, a sulfamic acid-nickel bath in which phosphorus is added. Therefore, it is possible to make higher the Young's modulus of light metal by mixing the reinforcing fibers and improve hardness by covering the outer periphery surface slidably abutted to other member with a plating layer.